

TO 00-20-9

TECHNICAL MANUAL

**FORECASTING REPLACEMENT REQUIREMENTS
FOR SELECTED CALENDAR AND HOURLY TIME CHANGE
ITEMS**

Prepared By: Automated Technical Order System (ATOS)

THIS PUBLICATION SUPERSEDES TO 00-20-9, DATED 16 JULY 1997.

THIS PUBLICATION HAS BEEN EXTENSIVELY REWRITTEN, THEREFORE REVISION BARS HAVE BEEN OMITTED.

DISTRIBUTION STATEMENT - Approved for public release; distribution is unlimited.

LIST OF EFFECTIVE PAGES

NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Dates of issue for original and changed pages are:

Original 0..... 31 May 1999

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 32, CONSISTING OF THE FOLLOWING:

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CHAPTER 1

GENERAL

1-1 PURPOSE.

This chapter provides:

- 1-1.1 The rules for preparing an AFTO Form 223, TIME CHANGE REQUIREMENTS FORECASTS, for other than Federal Supply Group 13 and Materiel Management Code AQ selected items (CAD/PAD items are covered in chapter 4).
- 1-1.2 Procedures for processing the AFTO Form 223.
- 1-1.3 Lists of selected calendar and hourly time change items which require special reporting.

1-2 SCOPE.

The procedures prescribed in this chapter are applicable to the AFMC IM, ALC base support organization, AF bases, Major Commands and requisitioning agencies. Security Assistance (SA) Program countries requisitioning items designated in this technical order from Air Force sources will comply with AF base reporting requirements.

NOTE

The time change listings in chapters 2 and 3 contain only those time change items when the item manager determines he needs additional requirements forecast data to assure assets are available to meet replacement requirements. Recommended additions/deletions/changes from other activities should be submitted by letter/message direct to the item manager. Do not use the AFTO Form 22, TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT REPORT AND REPLY, System.

1-3 FORECASTING CYCLES.

There are two different types of time change items covered by chapters 2 and 3, each with a different forecast frequency. The types and frequencies of forecast are as follows:

- 1-3.1 The forecasts for items listed in chapter 2 will be by quarter, starting with the next quarter, and covering the next two years. Quarters cover periods beginning with October, January, April, and July. Time change due dates are determined by the earlier of either date of manufacture or date of installation, not to exceed total shelf or service life of the item. When an item's service life is less than the item's shelf life, the earlier expiration date will dictate the time change. For example, an item with a nine year shelf life and a seven year service life manufactured in August 1984 and installed in October 1985 will require time change no later than 31 October 1992 based on service life expiration.

- 1-3.2 The forecast for items listen in chapter 3 are to be completed and submitted to 311 HSC/YACM by 1 September each year and must include all end items owned by the forecasting organization as of 15 June.

- 1-3.3 Forms containing classified information will be assigned appropriate security classification and will be processed in accordance with applicable security directives.

1-4 BASE LEVEL RESPONSIBILITIES.

1-4.1 CAMS Automated Units.

- 1-4.1.1 All aircraft installed egress, life support, and survival equipment items must be loaded in the local CAMS database for time change tracking and requirements forecasting purposes.

- 1-4.1.2 The host data base manager will be responsible for extracting the applicable time change data from CAMS for all host and associated agencies.

1-4.2 Non-automated Units.

1-4.2.1 Documentation activity personnel will initiate Microsoft Excel automated AFTO Form 223 provided by each MAJCOM, ANG, or AFRC. A copy will be forwarded not later than 10 workdays following the as of date of the form to maintenance supply liaison or the plans and scheduling activity. The documentation activity is the maintenance or life support organization who has the responsibility for the maintenance of records for those items listed in chapters 2 and 3.

1-4.3 Maintenance supply liaison and plans and scheduling personnel will review the data to insure stock number and supply account number accuracy, and forward to the appropriate base supply office not later than 15 workdays following the as of date of the form.

1-4.4 Base supply personnel input applicable retail stock level information and return to the initiating documentation activity within 18 workdays after the as of date of the form.

1-4.5 All Units.

1-4.5.1 Completed unit time change forecast will be returned to the appropriate Wing egress or life support functional manager.

1-4.5.2 Wing functional managers will consolidate unit change forecasts into a total Wing forecast.

1-4.5.3 Each MAJCOM, ANG, and AFRC will consolidate their Wing requirements into a total forecast. This total forecast will be forwarded to 311 HSC/YACM via e-mail no later than 1 September.

1-5 AIR FORCE MATERIEL COMMAND RESPONSIBILITIES.

1-5.1 Calendar and hourly time change items requiring special handling will be selected by the IM from the applicable -6 series or commodity series TO. Listings of these items, including national stock number (NSN), manufacturers part number, noun, or nomenclature and applicability will be forwarded to HQ AFMC/LGII for publication in this TO. Items which are calendar time change based on the date of manufacture will be designated with a double asterisk preceding the stock number. Revision of published lists will be processed in the same manner.

1-5.2 HSC/YAC will send out a reminder message (applicable to items in chapter 3) prior to 1 June of each year to all higher headquarters with instructions to retransmit to subordinate units. This message will include any last minute changes to forecasting requirements or procedures and applicable 311 HSC/YAC POC's.

1-5.3 For items listed in chapter 3, -311 HSC/YAC will consolidate these requirements into a single USAF forecast to supplement, system generated buy and budget estimates. In all cases, the equipment specialist, program manager, and engineering team will review the projections received and make the appropriate adjustments and recommendations to the IM.

1-6 PREPARATION OF THE MICROSOFT EXCEL AUTOMATED AFTO FORM 223.

1-6.1 The automated Microsoft Excel spreadsheet provides all NSN's, part numbers, and nomenclatures identified in chapter 3. Corresponding quarterly and out year requirements are already formatted and ready for inputs. Each input automatically updates the total requirements for each NSN. Most fields are wire protected to standardize the formats and applicable entries.

1-6.2 ORGANIZATION. Enter the name of the organization.

1-6.3 DATE. Enter the date on which the form is prepared.

1-6.4 SUPPLY ACCOUNT NUMBER. Enter the six digit stock record account number.

1-6.5 MAJOR COMMAND. Enter the major command.

1-6.6 STOCK OR PART NUMBERS NOT INCLUDED IN CHAPTER 2. Time change projections for items not listed in chapters 2, 3, or 4 must be manually entered below the last automated NSN. Enter all applicable data formatted similar to the automated fields. Where interchangeable, secondary or substitute items are involved, enter the stock number or part number of the master (preferred) item.

1-6.7 NOUN. Enter the noun/nomenclature of the item.

1-6.8 SUPPLY INFO-ASSETS ON HAND. Enter the total number of serviceable assets on hand.

1-6.9 SUPPLY INFO-ASSETS ON ORDER. Enter the quantity of assets on order from the source of supply.

1-7 EGRESS INDICATOR.

The Egress Indicator is used in CAMS to assist in developing certain reports. Although named Egress, the indicator has expanded to include more than just egress items. The three codes are as follows:

1-7.1 "C" is used for CAD/PAD explosive items, but is not used or Egress explosive items. A lot number is required in CAMS.

1-7.2 "B" is used for an item that is both a CAD/PAD explosive item and an Egress explosive item. Egress items of this type do not always have to be installed on a seat itself. The approved installed on chain must always be followed for each aircraft type and actual installation must be properly documented manually or through the electronic data systems. A lot number is required.

1-7.3 "E" is an Egress item that is non-explosive and may not have an associated lot number. It may also be used for Life Support items. However it should be used if available.

CHAPTER 2

SELECTED CALENDAR AND HOURLY TIME CHANGE ITEMS

2-1 LISTING OF SELECTED ITEMS.

The following items identified by stock number, part number, noun and/or nomenclature, and weapon or support system or end item applicability have been selected by DoD IMs for the special reporting prescribed by chapter 1.

The items designated by a double asterisk (**) are items that expire based on date of manufacture or when the service life is exceeded as prescribed in each applicable -6 scheduled inspection and maintenance.

Table 2-1. Selected Calendar and Hourly Time Change Items

STOCK NUMBER	PART NUMBER	NOUN/NOMENCLATURE	APPLICABILITY
1095 00 488 2075	44G11185	Bomb Group Selector, AN-A1	B-52 Aircraft
1420 00 653 0858AA	191060	Servopositioner Assy	A1M-4F/G
1420 00 831 0521AA	217125	Power Plant Assy	A1M-4F/G
1560 00 413 0924	12H1347-3	Pin Assy	F-111
1560 00 413 0925BJ	12H3486-1	Pin Assy	F-111
1560 00 413 092687	12H3487-1	Pin Assy	F-111
1560 00 430 521987	12111388-1	Pin Assy	F-111
1620-00-505-1184	3303591-3	Nose Gear	C-130
1620-00-896-1203	3316498-7	Hard Strut	C-130
1620-01-170-8325	3316498-1	Soft Strut	C-130
1620-01-263-6733	8430M4	Ballscrew	C-130
1630 00 676 2128	18050	Brake, Relay Valve	F-106
1630 00 713 7670	17720	Brake, Relay Valve	F-106
1630 00 827 8170LE	153715-1	Wheel, MLG	F-104, (T)F-104G
1650 00 119 277887	11340-9	Actuator, Wing Sweep	EF-111A
1650 00 241 1787	47989-001-10	Emergency Landing Gear Actuator Valve	EF-111A
1650 00 679 7485	871775	Air Bottle	C-135
**1650 00 856 2024	ASFW100	Flask	F-106A/B
1650 00 969 6625	47989-001-08	Emergency Landing Gear Actuator Valve	F-111
1650 01 037 9127	23711999	Air Bottle	E-3, C-135
1670 00 204 57598T	C801G-MI	Parachute, Recovery	EF-111A
**1670 00 947 4539BJ	C888G	Parachute, Stabilization	EF-111A
1680 00 1D5 1711&1	5A1497-5	Bag Assy, Aft Float, LH	EF-111A
**1680 00 269 20548J	18D24297-5	Bag Assy, Aux Flotation	F-111
**1680 00 276 1830BJ	5A1660	Bag Assy, SR, RH	F-111
**1680 00 754 7564BJ	5A1497-6	Bag Assy, Aft Float RH	F-111
**1680 00 860 5990BJ	5A1501-3	Bag Assy, Selfrighting, LH	F-111

Table 2-1. Selected Calendar and Hourly Time Change Items - Continued

STOCK NUMBER	PART NUMBER	NOUN/NOMENCLATURE	APPLICABILITY
1680 01 042 3261WF	2022058-1-1	Rotary Actuator	F-16
1680 01 146 3211BJ	5A1486-7	Bag Assy, Impact Attenuation	F-111
1680 01 048 8977WF	2022056-1-1	Rotary Actuator	F-16
1680 01 225 7319WF	2022058-1-2	Rotary Actuator	F-16
1680 01 230 1279WF	2048344-1-4	Rotary Actuator	F-16
**1680 01 250 8671BJ	220060-31	Pressure Source	F-111
**1680 01 250 8670BJ	220060-32	Pressure Source	F-111
**1680 01 250 8669BJ	220060-33	Pressure Source	F-111
**1680 01 250 8668BJ	220060-34	Pressure Source	F-111
1680 01 276 8711WF	2048342-2-1	Rotary Actuator	F-16
2835 00 390 1884	19E173-2C	PTO Shaft	F15
2835 01 069 2883	19E219-1A	PTO Shaft	F16
2835 01085 7713	5004551D	Accessory Drive Gearbox	F16
2835 01097 3869	5004451F	Accessory Drive Gearbox	F16
2835 01 115 6111	19E235-2A	PTO Shaft	F16
2835 01 116 0006	581750-10-1	Turbine Power Unit	F16
2835 01 140 1623	5007076A	Accessory Drive Gearbox	F16
2835 01 154 3533	160001-1100	Jet Fuel Starter	F16
2835 01 164 6019	50044510	Accessory Drive Gearbox	F16
2835 01 208 0169	5007076B	Accessory Drive Gearbox	F16
2835 01235 5249	5004451B	Accessory Drive Gearbox	F16
2835 01 263 9440	581750-11-1	Turbine Power Unit	F16
2845 00 827 4044AD	410915	Valve Assy, Oxidizer	437, Burner II
4210 00 288 8268	13X13261	Fire Ext, Type A-20	C-121 (ALL)
4320 00 062 0511HS	55113	Pump, Hydraulic	EF-111, EB-111
4320 01 152 8301	55113-02	Pump, Hydraulic	F-16
4810 00 675 0239HS	S741	Elevator Control Fuel System Regulator	F-106
4820 00 050 4315TP	32570-1	Regulator, Attenuation Pneumatic	F-111
4935 00 767 0175AD	10766-5	Element Assy, Filter	437
5835 00 954 1190	92002	Head, Reproduce	AN/GSH35
5930 00 056 7499	604EN7-6	MLG Downlock Switch	F-111
6135 00 416 2898	MIL-B-83771 GAP-4433	Battery, Primary	AIM-4AD
6135 00 572 5908CM	938C373P2	Battery, A and F	LGM-25C
6135 00 691 2442CM	179D277P1	Battery A/C	LGM-25C

CHAPTER 3

SELECTED CALENDAR TIME CHANGE LIFE SUSTAINING ITEMS

3-1 LISTINGS OF SELECTED LIFE SUSTAINING ITEMS.

Many man-carrying parachutes and parachute components have a calendar year service life but cannot be listed in a -6 scheduled inspection and maintenance requirements manual. Items are not actually installed in the aircraft or may be moved from aircraft to aircraft and once service life begins, it continues to accrue even when the item is removed from service. The service life expiration date must be computed based on instructions contained in the applicable commodity series Technical Order (TO). An example of how to determine the service life expiration date is contained in TO 14D3-11-1, chapter 4. Because procurement leadtime may be 18 months or longer, a projection of replacement requirements is necessary to assure support. The following items have been selected for the special reporting prescribed by this TO. For those items contained in this chapter, the Microsoft Excel automated AFTO Form 223 will be completed by the life support or maintenance organization who has the responsibility for the maintenance of records. Items managed by DLA will be rolled up and transmitted by 311 HSC/YAC to DLA, during the normal annual submission.

Table 3-1. Selected Calendar Time Change Life Sustaining Items

STOCK NUMBER	PART NUMBER	NOUN/NOMENCLATURE	EGR. IND.	APPLICABILITY
1670 00 020 5038LS	64D2162-6	Riser	E	B-57, T-33
1670 00 020 5039LS	64D2162-3	Riser	E	Multi-Aircraft
1670 00 058 5008LS	66C 1719	Adapter, Chest Strap	E	Multi-Aircraft
1670 00 106 0743LS	68D207-1	Riser Ext	N/A	C-123, C-130, C-141
1670 00 106 6482LS	6752010	Harness, Personnel	N/A	C-123, C-130, C-141
1670 00 106 6483LS	67J2043	Pack, Personnel Parachute	E	Multi-Aircraft
1670 00 112 9861LS	48J7156-3	Canopy	E	C-141
1670 00 123 9080LS	MBEU34505	Parachute Assy 22.00 IN Controller Drogue	E	F-4
1670 00 128 2290LS	68K147-1	Canopy, Personnel	E	Multi-Aircraft
1670 00 185 3119LS	63C780	Strap, Connector	E	F-4
1670 00 236 4323LS	69537646	Harness, Personnel Parachute	E	A-1/T-28
1670 00 369 5444LS	685369	Harness	E	Multi-Aircraft
1670 00 377 6626LS	50C7041	Adapter, Riser	E	Multi-Aircraft
1670 00 377 9094LS	4857156-2	Canopy, Personnel	N/A	C-123, C-130, C-141
1670 00 451 1982LS	MBEU39295	Parachute Assembly, 5.00 FT Stabilizer	E	F-4
1670 00 454 0926LS	685370	Harness	E	F-4, OV-10, A-7D
1670 00 481 9760LS	MBEU38119	Strap, Extender	E	F-4
1670 00 486 4891LS	685420-101-	Harness, Personnel	E	Multi-Aircraft

Table 3-1. Selected Calendar Time Change Life Sustaining Items - Continued

STOCK NUMBER	PART NUMBER	NOUN/NOMENCLATURE	EGR. IND.	APPLICABILITY
1670 00 486 8739LS	66D1654	Static Line Chute	N/A	HC-130
1670 00 508 9417LS	755AS104-20	Riser RH	E	F-4
1670 00 508 9420LS	755AS104-19	Riser LH	E	F-4
1670 00 516 8068LS	5656126	Personnel Chute	E	Multi-Aircraft
1670 00 517 9539LS	56C609-0	Reserve	E	Multi-Aircraft
1670 00 536 8252LS	55D6481	Static Line, Personnel	E	Multi-Aircraft
1670 00 764 9647LS	MBEU4990PA	Line Assy-Withdrawal	E	F-4
1670 00 807 9436LS	5956706-30	Harness	E	Multi-Aircraft
1670 00 830 9134LS	59C6712	Riser	E	B-52
1670 00 834 8347LS	5956710	Harness	E	B-52H
1670 00 889 8322LS	MBEU34010	Line, Drogue Connecting	E	F-4
1670 00 891 1884LS	64D2162-4	Riser	N/A	Cargo Aircraft
1670 00 943 3024LS	65K1533-101	Harness, Personnel	E	Multi-Aircraft
1670 00 000 6440LS	MBEU23177	Line Assy, Drogue Withdrawal	E	F-4
1670 01 003 4535LS	7445709-10	Chute, Drogue	E	B-52
1670 01 003 4536LS	7445709-50	Chute, Drogue	E	B-52
1670 01 024 6642LS	68K147-7	Canopy, Personnel	N/A	C-130
1670 01 034 5836LS	GID51-474-505 18430071-101	Harness Assy	E	T-38
1670 01 037 9070LS	7640013	Pull Down Vent Line	E	Multi-Aircraft
1670 01 039 7409LS	68K147-6	Canopy	N/A	C-130
1670 01 040 2569LS	GID21-288-503	Parachute Assy	E	T-38
1670 01 040 5864LS	GID53-686-311	Sleeve Deployment	E	T-38, F-5
1670 01 070 5208LS	D114549-501	Riser	E	ACESII
1670 01 236 3820	5114551-505	Canopy, Personnel	E	ACES
1670 01 236 3822	50E6877-3A	Canopy, C9	E	F-4
1670 01 250 5468	5114712-503	Drogue Assy	E	ACES
1680 00 115 2912LS	MBEU35674	Line, Release Assy	E	F-4
1680 00 496 0290LS	683417-10	Strap Safety	N/A	Multi-Aircraft (Cargo)
1680 00 944 0107LS	MBEU167H5	Face Screen, Seat	E	F-4
1680 01 053 8604LS	2101246-11-1, -17-1, -20-1	Sequencer, Recovery	E	A-10
1680 01 053 9320LS	2101246-10-1, -16-1, -19-1	Sequencer, Recovery	E	F-15, F-16
1680 01 084 6923LS	MBEU54600	Strap Restraining	E	F-4
1680 01 100 6631LS	300900-5, 811-00112	Environmental Sensor	E	ACESII

Table 3-1. Selected Calendar Time Change Life Sustaining Items - Continued

STOCK NUMBER	PART NUMBER	NOUN/NOMENCLATURE	EGR. IND.	APPLICABILITY
1680 01 163 1590	68E417-30	Strap, Safety	N/A	C-130
1680 01 180 1915LS	2101246-14-1	Sequencer, Recovery	E	B-1
	2101246-21-1			B-1
1680 01 195 1059	MBEJ74139	Strap Assy	E	F-4
1680 01 224 5696	811-00112-1	Environmental Sensor	E	B-1
1680 01 232 5150LS	2101246-15-1	Sequencer, Recovery	E	B-1
	2101246-21-1			B-1
1680 01 234 0811	811-00087	Velocity Sensor	E	B-1
1680 01 382 8535	2101246-18-1	Sequencer, Recovery	E	B-2
1680 01 385 3630	811-00112-2	Sensing Unit	E	F-117
4220 01 167 7594	852AS101	Electronic Package Assembly Seawars	B	SEAWARS
4220 01 326 1466	109-000	FLU-9 A/P Inflator	B	LPU-9/P Assy
4220 01 386 7676	1812-147-01	FLU-9/P, Inflater	B	LPU-9P Assy
4240 01 119 2315	D5-3-1500	Canister, C-2	N/A	M40/43 Mask
4240 01 217 0046LS	802300-11	Emergency Escape Slide Breathing Device	N/A	Multi-Aircraft (Cargo)
4240 01 361 1319	5-3-1520	Canister, C-2A1	N/A	M40/43 Mask
6130 01 312 3511LS	CAP-12115B	Power Supply	E	F-16, ACESII
6135 00 073 8939	BA15741U	Battery	N/A	SDU-5/E Strobe Light
6135 00 838 0706	BA-1568	Battery	N/A	AN/PRC-90
6135 00 930 0810LS	P4-01-0008C	Battery, Dry K-308-A	N/A	URT-10
6135 01 050 3193LS	7747390-10	Battery Power Supply	N/A	AN/URT33C/M
6135 01 088 2708	BA-5588/U	Battery, Lithium	N/A	Chem Defense
6135 01 187 4382LS	P4-01-0065	Battery Power Supply	N/A	AN/URT-33B-1
6135 01 115 2867	4SR44	Battery, Non Rechrg	N/A	
6135 01 235 4168	BA-5112/U	Battery	N/A	AN/PRC-112
6135 01 268 2151	152-99-5341	Battery, Non Rechrg	N/A	LPU-SP Mask
6135 01 275 4749	P4-01-0006	Battery, Magnesium	N/A	SDU-30/E Strobe
6260 01 074 4229	A-A-55134-B	Cyalume Lamp	N/A	Multi-Aircraft

CHAPTER 4

SELECTED CARTRIDGE/PROPELLANT ACTUATED DEVICES (CAD/PAD)

4-1 PURPOSE.

This chapter provides:

- 4-1.1 The procedure for completion and processing of manual AFTO Form 223, Time Change Requirements Forecasts for those units not hosted on Core Automated Maintenance System (CAMS).
- 4-1.2 The procedures for processing of automated AFTO Form 223 via CAMS. Units hosted on CAMS will use the automated procedures contained in this technical manual.
- 4-1.3 A list of selected time change items which require special reporting.

4-2 SCOPE.

The procedures prescribed in this chapter are applicable to AFMC Item Managers (IMs), ALC base support organizations, Air Force bases, and requisitioning agencies. Security Assistance (SA) Program countries requisitioning items designated in this technical manual from Air Force sources will comply with Air Force base reporting requirements.

NOTE

The time change items listed in table 4-1 are items the IMs have determined a need for additional forecast data. The items are either common to multiple aircraft or are changed out during other than a Program Depot Maintenance (PDM) cycle. These item must be forecast for using the manual or automated AFTO Form 223.

4-3 CHANGE PROCEDURES.

Submit recommended changes to this chapter by letter or message to OO-ALC/LIWCC, 6033 Elm Lane, Hill AFB, UT 84056-5819. Do not use the AFTO Form 22 system. OO-ALC/LIW is the technical content manager for the information in this chapter.

4-4 FORECASTING CYCLE.

4-4.1 CAD/PAD will be forecast annually. Forecasts are to be completed and submitted to OO-ALC/LIW by 1 August each year and must include all aircraft owned by forecasting organization as of 15 June. Forecasts will be by quarter starting with the first quarter of the upcoming calendar year, and covering a period of time corresponding to the total service life of the item or a minimum of nine years. Quarters cover periods beginning with January, April, July and October. CAD/PAD time change due dates are determined by the earlier of either date of manufacture (DOM) or date of installation (DOI) expiration, not to exceed total shelf or service life of the item. For example, an item manufactured in June 1980 with a ten-year shelf and service life would expire 30 June 1990, regardless of DOI. If the item was not installed until 1985, it would still expire 30 June 1990 because service life cannot exceed shelf life as determined from the DOM. When an item's service life is less than item's shelf life, the earlier expiration date would dictate time change. For example, an item with a nine-year shelf life and a seven-year service life manufactured in August 1984 and installed in October 1985 would require time change no later than 31 October 1992 based on service life expiration. However, if that part was installed in July of 1990, it must be changed out by August 1993, based on DOM.

4-4.2 Once a CAD/PAD item is installed the first time, its service life expiration cannot change. For example, a 5-year service life item installed in October 1994, reaches its service life in October 1999. If the part taken out and later reinstalled in another aircraft, the service life expiration remains October 1999. CAMS must be adjusted manually to reflect this.

4-4.3 Forecast for the full forecast period for all aircraft owned as of 15 June. Aircraft transfers will be forecast by the gaining base in the next forecast cycle after the transfer has occurred.

4-4.4 Form/Computer products containing classified information will be assigned appropriate security classification and will be processed in accordance with applicable security directives.

4-4.5 Negative reports are required. Negative reports should be reported to OO-ALC/LIWCC by message.

4-5 BASE-LEVEL RESPONSIBILITIES.

4-5.1 Non-automated Units.

4-5.1.1 Documentation activity personnel will initiate the AFTO Form 223 by completing blocks 1 through 6. Block 4 should be filled in with the munitions stock record account number (SRAN) which can be obtained from the base Munitions Operations (MASO or AFK) chapter. The documentation activity is the shop, element, flight or chapter having upkeep responsibility for the records of those items listed in this chapter. Typically, this is the Plans and Scheduling chapter. Only forecast for those items listed in table 4-1. Review forms to ensure part number accuracy and that all blocks are completed as specified in paragraph 4-7.

4-5.1.2 The Munitions Operations chapter or MASO, and Plans and Scheduling chapters should both keep copies of all forecasts. The documentation activity should also forward one copy to OO-ALC/LIWCC, 6033 Elm Lane, Hill AFB, UT 84056-5819 by 1 August of each year. Send an information copy to applicable major command headquarters aircraft/munitions maintenance activity at MAJCOM discretion.

NOTE

Associate unit AFTO Forms 223 shall be forwarded by the MASO to OO-ALC/LIWCC. Requirements shall not be consolidated with requirements of the host organization unless they have the same MAJCOM. Note any consolidations to LIWCC.

4-5.2 CAMS Automated Units.

4-5.2.1 All aircraft installed CAD/PAD items must be loaded into local CAMS database for time change tracking and requirements forecasting purposes. This process greatly eases administrative workloads at both local and depot levels, and provides greater visibility of worldwide assets and requirements to depot level managers.

4-5.2.2 Host database manager will be responsible for extracting the CAD/PAD time change data from CAMS for all host and associate unit agencies.

4-5.3 All Units

4-5.3.1 All forecasts must include a base or unit POC, phone number and e-mail address (if available).

4-5.3.2 E-Mail can now be utilized to send forecast to OO-ALC/LIW. A reminder message containing the most current e-mail address will be put out by OO-ALC/LIW prior to 1 August of each year. Please check this message annually for the current e-mail address and other updated information, or call the CAD/PAD time change forecast POC at OO-ALC/LIW.

4-6 AIR FORCE MATERIAL COMMAND RESPONSIBILITIES.

4-6.1 Send out a reminder message prior to 1 August of each year to all higher headquarters with instructions to retransmit to subordinate units. In it, provide current OO-ALC POC including e-mail and DSN. Provide any other last minute changes or updates to forecasting requirements or procedures.

4-6.2 Upon receipt of projected time change item requirements from AF bases, the OO-ALC POC will consolidate these requirements for all users. Equipment specialist will review forecasts received forecasts received and make recommendations to IMs prior to initiating procurement actions.

4-7 MANUAL PREPARATION OF AFTO FORM 223.

4-7.1 BLOCK 1, LOCATION. Enter name of base.

4-7.2 BLOCK 2, ORGANIZATION. Enter name of organization the forecast is for (not necessarily the same as the forecasting/documentation chapter).

4-7.3 BLOCK 3, DATE. Enter date on which form is prepared.

- 4-7.4 BLOCK 4, SUPPLY ACCOUNT NUMBER. Enter six digit stock record account number(obtained from the base MASO or Munitions Operations chapter).
- 4-7.5 BLOCK 5, MAJOR COMMAND. Enter major command code (two digits). If unsure, just enter the MAJCOM(ex. ACC, AFMC, etc.).
- 4-7.6 BLOCK 6A, PART NUMBER. Enter the NSN (preferred) and/or part number (if using NSN, please include dashes, and do not include the "ES" annotation). Where interchangeable, secondary or substitute items are involved, enter part number or NSN of installed item.
- 4-7.7 BLOCK 6B, NOUN. Enter noun/nomenclature of item.
- 4-7.8 BLOCK 6C, REQUIREMENTS QUANTITY. Enter quarterly projections in column under YEAR AND QUARTER. Enter last two digits of calendar year for which projection is being made above the line and 1, 2, 3 or 4 below the line for applicable quarter. Use additional sheets to forecast all required years.
- 4-7.9 BLOCK 6D, TOTAL. Enter the total of all remaining additional yearly forecasts as required to cover service life of item for those items with service life longer than 9 years.
- 4-7.10 BLOCK 7, SUPPLY INFORMATION. No data required.

4-8 CAMS AUTOMATED AFTO FORM 223.

- 4-8.1 The documentation activity will forecast all Work Unit Code (WUC) 97XXX items contained in their CAMS database using the CAMS 490 screen to produce the forecast. The only exception to this requirement is F-111 and B-1B. For these aircraft only forecast for those items listed in table 4-1. Item managers forecast for all other time change items replaced during PDM.
- 4-8.2 Do not include on hand balances as part of forecast.
- 4-8.3 It is essential that data be validated and checked for accuracy. If changes are required, update CAMS database and rerun program.
- 4-8.4 Information on CAMS 490 screens are in AFCSM 21-579 Vol 2, pgs 4-20 to 4-24 (formerly AFM 66-279, Vol XXVII). Units must ensure they fill out all the header data on the 4990 screen. Use the servicing munitions SRAN (FV or FK) in the "Supply Acct Code" field.
- 4-8.5 Save the CAMS 490 screen to a 3.5-inch floppy disk in ASCII format. Units must use their host designation as file name, followed by ".ASC". For example, the 58FW forecast would have a file name 58FW.ASC. For multiple files, assigned numbers after the host designation, for example, 388FW1.ASC, 388FW2.ASC, 388FW3.ASC, and so on.
- 4-8.6 CAMS mainframes hosting more than one unit/organization should have separate files for each unit. If the organization is another government agency or a civilian company under contract to the Air Force, use a practical abbreviation for their file name.
- 4-8.7 Forward a copy of the disk as specified in 4-5, or by e-mail as specified in the annual update message from OO-ALC/LIW.
- 4-8.8 If problems are encountered with this program, contact OO-ALC/LIWCC, 6033 Elm Lane, Hill AFB, UT 84056-5819.

4-9 LISTING OF SELECTED ITEMS.

The following items (Table 4-1) identified by NSN, Part No., Noun/Nomenclature and Applicability have been selected by AFMC IMs for special reporting prescribed by this chapter. The items listed are due for change based on date of installation, date item was removed from its hermetically sealed container, or when item has exceeded shelf life as prescribed in each applicable -6 scheduled inspection and maintenance requirements manual or applicable commodity series technical order.

Table 4-1. Selected Cartridge/Propellant Actuated Devices

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-00-006-7879ES	834AS100	Initiator, JAU-13A	B	F-16E/XL
1377-00-006-7880ES	834AS150	Initiator, JAU-14A	B	F-16E/XL
1377-00-011-9082ES	100996-5	Parts Kit, Cutter	C	UH-1
1377-00-070-2490ES	2129300	Cartridge, Delay	B	QF-4
1377-00-119-2055ES	MBEU2785RU 4904216	Rocket Motor	B	QF-4
1377-00-125-0074ES	140121-1	Actuator, Kit Deployment	B	Forecast under 1377-01-299-9862ES
1377-00-125-7777ES	11820361	Rocket Catapult	B	T-38
1377-00-138-2871ES	2297300-2 2297800-1	Cartridge	B	F-15A/C
1377-00-138-3770ES	812666-9	Initiator	B	F-15
1377-00-172-0428ES	895408	Cartridge	C	UH-1F/N
1377-00-174-5024ES	895409	Cartridge	C	UH-1F/N
1377-00-188-4086ES	30900400	Cartridge, Fire Extinguisher	C	UH-1N
1377-00-193-4910ES	MBEU50058-1	Cartridge, Impulse	B	QF-4
1377-00-222-9062ES	11731474	Initiator, M113	B	T-37
1377-00-229-1515ES	113355	Initiator	B	F-15B/D/E
1377-00-238-0552ES	2130300-1	Initiator	B	QF-4, F-15
1377-00-238-0553ES	2129300-1	Cartridge	B	QF-4
1377-00-238-0554ES	21301900-1	Initiator	B	QF-4, F-15
1377-00-245-7970ES	21291700-1	Cartridge	B	QF-4
1377-00-261-5361ES	K303102-9	Parts Kit Cutter	C	HH-1H
1377-00-261-5371ES	21084-7	Cartridge	B	F-15
1377-00-280-0272ES	30903802 113044-1	Cartridge, Fire Extinguisher	C	F-15
1377-00-299-1500ES	2293100	Initiator	B	F-15
1377-00-299-1506ES	2271100	Initiator	B	F-15
1377-00-299-1511ES	812666-11	Initiator	B	F-15B/D/E
1377-00-299-1512ES	2271500-1	Initiator	B	F-15
1377-00-299-1515ES	113355	Initiator	B	F-15B/D/E
1377-00-322-0778ES	2271700-2	Initiator	B	F-15
1377-00-349-3943ES	50905-3	Selector	B	F-15B/D/E
1377-00-349-3950ES	2404300-1	Canopy Remover Cartridge	B	F-15B/D/E
1377-00-403-4827ES	11731737	JAU-8/A25A Initiator	B	A-10 B-1B, F-117
1377-00-406-9569ES	6901003 6901003-401	Cartridge, Impulse	B	B-57, F-15

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-00-412-3205ES	2197200	Cartridge, Impulse	B	QF-4
1377-00-419-6105ES	939907	Cartridge, Impulse	B	B-52D
1377-00-448-8898ES	21301900	Initiator, Gas	B	QF-4
1377-00-489-1549ES	10069C002 1BH-002-04	Container, Gas	B	E-3A, F117
1377-00-554-3103ES	11730533	Thruster, M25A1 (M25)	B	T-38
1377-00-596-9673ES	805300-24 200340	Squib	C	C-5A/B
1377-00-607-0306ES	8595439	Remover, M4	B	A-10
1377-00-607-0316ES	8594746	Thruster, M5A2	B	B-52
1377-00-628-5178ES	8593635	Catapult, M3A1	B	B-52/H
1377-00-628-5179ES	8593669	Catapult, M4A1	B	B-52/H
1377-00-628-5180ES	8593731	Remover, M1A3	B	Forecast under 1377-01-364-3955ES
1377-00-677-6281ES	4199-1, 802465-2, 072037	Squib, Fire Extinguisher	C	C-130B, E, H, P
1377-00-686-2266ES	13083-45	Fire Extinguisher Cartridge	C	C-141
1377-00-724-9886ES	10520555	Initiator, M28	B	B-52/H
1377-00-731-9271ES	10520405	Initiator, M99	B	A-10A, F-15A/B, F-16
1377-00-731-9272ES	10520619	Initiator, M53	B	A-10A, F-16, T-38, T38A
1377-00-756-1384ES	841155 841155-1	Cartridge, Fire Extinguisher	C	H-3, T-39, T-29, TC-135B, C-131, C-137, C-130A/D
1377-00-756-3499ES	8595251	Initiator, M31	B	T-38
1377-00-824-2916ES	200420 2-100040 805300-2	Squib, Fire Extinguisher	C	C-5A/B
1377-00-825-4910ES	2130300	Initiator, Pressure Operated	B	QF-4
1377-00-825-4911ES	21291700	Cartridge, Delay	B	QF-4
1377-00-845-1058ES	8597941	Initiator, M26	B	B-52, A-10
1377-00-845-1059ES	10520550	Initiator, M-27	B	T-38, B-52
1377-00-845-5242ES	2519696	Cartridge Set	B	QF-4
1377-00-849-0214ES	10521321	Thruster, M16	B	B-52/H
1377-00-883-8991ES	MBEU1850RU	Motor, Rocket	B	QF-4
1377-00-883-8997ES	MBEU7536-1	Cartridge, Impulse	B	QF-4

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-00-883-8998ES	2519698 MBEU16650-1	Cartridge, Impulse	B	QF-4
1377-00-891-5488ES	8593854	Thruster, M1A2	B	B-52
1377-00-891-6310ES	1000-34	Actuator, Rotary	B	B-52
1377-00-891-6319ES	1000-45	Actuator, Rotary	B	T-37
1377-00-899-8874ES	8596170	Initiator, M5A2	B	B-52
1377-00-918-8533ES	13083-5 2519614	Squib, Fire Extinguisher	C	UH-1N
1377-00-921-5048ES	8593873	Thruster, M2A2	B	B-57
1377-00-926-9413ES	8595409-1	Initiator, M32A1	B	T-37
1377-00-926-9415ES	10520232-1	Initiator, M49A1	B	B-52D
1377-00-932-5031ES	8595821-1	Initiator, M3A2	B	B-52, QF-4, T-37
1377-00-953-5567ES	10522629	Thruster, M3A3	B	B-52/H, T-37B
1377-00-978-7644ES	100996-1	Cutter, Cartridge	C	UH-1N
1377-01-003-1175ES	50577-51	Parts Kit, Egress System	C	AC-130H
1377-01-003-6616ES	759AS100	Rocket Motor	B	QF-4
1377-01-015-6422ES	1018-500	Drogue Gun	B	T-38
1377-01-017-0601ES	1130-1	Initiator Cartridge	B	QF-4
1377-01-017-0612ES	1132-1	Cartridge Delay	B	QF-4
1377-01-017-0613ES	1133-1	Cartridge Delay	B	QF-4
1377-01-036-8514ES	1175AS100	Rocket Motor	B	QF-4
1377-01-037-8538ES	30903801 200430	Cartridge, Fire Extinguisher	C	E-3A
1377-01-043-8275ES	874000, -01	Cartridge	B	E-3A
1377-01-044-6367ES	30903823	Squib	C	A-10
1377-01-045-7095ES	1001-9	Catapult	B	F-15A/B
1377-01-047-7458ES	1007-4	Initiator, Cartridge	B	F5F, T-38
1377-01-049-7586ES	1000-54	Rotary Actuator	B	T-38
1377-01-052-8206ES	1002-41	Cartridge, Harness Release	B	A-10, F-15, F-16, B-2A, F-117, B-1B
1377-01-052-8207ES	1005-3	Cartridge, Mortar	B	A-10, F-15, F-16, B-2A, F-117, B-1B
1377-01-052-8208ES	1003-24	Cartridge, Drogue Gun	B	A-10, F-15, F-16, B-2A, F-117, B-1B

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-052-8209ES	1SE172-1.15 CI-1.15	Cartridge Reefing Line	B	A-10, F-15, F-16, B-2A, F-117, B-1B
1377-01-052-8210ES	1SE172-4.0 CI-4.0	Cutter, Survival Kit Cord	C	A-10, F-15, F-16, B-2A, F-117, B-1B
1377-01-053-0537ES	1004-3	Gas Generator, Gyro Spin Up	B	A-10, F-15, F-16, B-2A, F-117, B-1B
1377-01-053-0586ES	50436-5	Rocket Motor	B	A-10, F-15, F-16, B-2A, F-117, B-1B
1377-01-053-0587ES	1143-3	Divergence Rocket Motor	B	F-15B/D/E, A-10, F-16, F-117, B-2A, B-1B
1377-01-053-7833ES	51064-1	Detonation Assembly	B	F-16
1377-01-053-7877ES	16K0341-1	Detonation Transfer Assembly	B	F-16
1377-01-053-7878ES	16K0341-18	Detonation Transfer Assembly	B	F-16
1377-01-053-7879ES	16K0341-3	Detonation Transfer Assembly	B	F-16
1377-01-053-7880ES	16K0341-4	Detonation Transfer Assembly	B	F-16
1377-01-053-7881ES	16K0341-5	Detonation Transfer Assembly	B	F-16
1377-01-053-7882ES	16K0341-19	Detonation Transfer Assembly	B	Forecast under 1377-01-198-7480ES
1377-01-053-7883ES	16K0341-20	Detonation Transfer Assembly	B	Forecast under 1377-01-198-7480ES
1377-01-053-7884ES	51126-1	Detonation Transfer Assembly	B	F-16
1377-01-053-7885ES	51126-2	Detonation Transfer Assembly	B	F-16
1377-01-053-7888ES	16K0341-9	Detonation Transfer Assembly	B	F-16
1377-01-053-7889ES	16K0341-10	Detonation Transfer Assembly	B	F-16
1377-01-053-7891ES	16K0341-8	Detonation Transfer Assembly	B	F-16
1377-01-053-8604ES	2101246-17-1	Sequencer	B	A10
1377-01-053-9320ES	2101246-19-1	Sequencer	B	F-16, F-15, F-117
1377-01-054-2911ES	2651100	Initiator	B	F-16
1377-01-054-2912ES	2650100	Initiator	B	F-16
1377-01-054-9949ES	51064-2	Detonation Assembly	B	F-16
1377-01-054-9950ES	51092-3	Detonation Assembly	B	F-16
1377-01-055-8621ES	16K2038-1	Detonation Transfer Assembly	B	F-16
1377-01-055-8622ES	16K2038-2	Detonation Transfer Assembly	B	F-16

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-055-8624ES	16K2038-42	Detonation Transfer Assembly	B	F-16
1377-01-055-8626ES	16K2038-33	Detonation Transfer Assembly	B	F-16
1377-01-055-8627ES	16K2038-34	Detonation Transfer Assembly	B	F-16
1377-01-055-8628ES	16K2038-22	Detonation Transfer Assembly	B	F-16
1377-01-055-9964ES	51062-3	Line Assembly Detonation	B	F-16
1377-01-056-4520ES	16K2038-23	Detonation Transfer Assembly	B	F-16
1377-01-056-4521ES	16K2038-24	Detonation Transfer Assembly	B	F-16
1377-01-056-4522ES	16K2038-25	Detonation Transfer Assembly	B	F-16
1377-01-056-4524ES	16K2038-37	Detonation Transfer Assembly	B	F-16
1377-01-056-4525ES	16K2038-29	Detonation Transfer Assembly	B	F-16
1377-01-056-4526ES	16K2038-35	Detonation Transfer Assembly	B	F-16
1377-01-056-4527ES	16K2038-36	Detonation Transfer Assembly	B	F-16
1377-01-056-4528ES	16K2038-31	Detonation Transfer Assembly	B	Forecast under 1377-01-144-8482ES
1377-01-056-4529ES	16K2038-32	Detonation Transfer Assembly	B	Forecast under 1377-01-144-8482ES
1377-01-056-8642ES	51062-4	Line Assembly Detonation	B	F-16
1377-01-056-8643ES	51062-6	Line Assembly Detonation	B	F-16
1377-01-056-8644ES	51062-7	Line Assembly Detonation	B	F-16
1377-01-056-8645ES	1180-4	Initiator	B	F-16
1377-01-057-5431ES	2820100-2	Remover	B	F-16
1377-01-058-0122ES	2820100-1	Rocket Canopy	B	F-16
1377-01-061-2268ES	16K2038-30	Detonation Transfer Assembly	B	F-16
1377-01-061-5738ES	5184875	CKU-8/A Catapult	B	T-37
1377-01-063-2198ES	2271100-1 6028100	Initiator	B	F-15
1377-01-063-9732ES	51092-4	Detonation Transfer Assembly	B	F-16
1377-01-063-9733ES	51092-5	Detonation Transfer Assembly	B	F-16
1377-01-069-7776ES	7829332-10	Explosive Cord Set	B	F-15A/C
1377-01-069-7777ES	7829332-30	Explosive Cord Set	B	F-15B/D
1377-01-073-2190ES	1220-1	Initiator	B	F-16
1377-01-073-2193ES	16K2038-39	Detonation Transfer Assembly	B	F-16
1377-01-073-2194ES	16K2038-40	Detonation Transfer Assembly	B	F-16
1377-01-073-3881ES	K303104-1	Refire Kit	C	H-60
1377-01-073-9444ES	51062-8	Line Assembly	B	F-16
1377-01-073-9445ES	51062-9	Line Assembly	B	F-16
1377-01-079-2663ES	16K0341-25	Detonation Transfer Assembly	B	F-16

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-079-2664ES	16K0341-26	Detonation Transfer Assembly	B	F-16
1377-01-079-5328ES	16K2038-38	Detonation Transfer Assembly	B	F-16
1377-01-082-4026ES	16K2038-41	Detonation Transfer Assembly	B	F-16
1377-01-083-8459ES	811318-6	Drogue FLSC Severance Assembly	B	F-15, F-16, A-10, B2A, B-1B, F-117
1377-01-084-9358ES	6010600	Cartridge	C	C-5, C-130, KC-135, C-141 B-52, T-37, T-38, F102
1377-01-085-5974ES	2652100-2	Bolt, Release	B	F-16
1377-01-087-2190ES	16K0341-27	Detonation Transfer Assembly	B	Forecast under 1377-01-144-8481ES
1377-01-087-5166ES	303104-1	Cable Cutter	C	UH-1, UH-60
1377-01-090-7557ES	6022100	Cartridge	C	B-52, KC-135, C-130, C-141, C-5, C-17
1377-01-091-8222ES	1001-508	Catapult	B	B-57, WB-57
1377-01-094-7054ES	851AS150	Initiator	B	OV-10
1377-01-099-8087ES	16K0341-32	Detonation Transfer Assembly	B	F-16
1377-01-099-8088ES	16K0341-33	Detonation Transfer Assembly	B	F-16
1377-01-099-8089ES	16K0341-34	Detonation Transfer Assembly	B	F-16
1377-01-102-2219ES	1255-1	Initiator	B	F-16
1377-01-102-8963ES	1256-1	Initiator	B	F-16
1377-01-104-2309ES	113060-2	Cartridge	B	QF-4
1377-01-111-6840ES	16K0341-35	Detonation Transfer Assembly	B	F-16
1377-01-112-6951ES	16K2038-46	Detonation Transfer Assembly	B	F-16
1377-01-112-6952ES	16K2038-45	Detonation Transfer Assembly	B	F-16
1377-01-112-6953ES	16K2038-43	Detonation Transfer Assembly	B	F-16
1377-01-112-6954ES	16K0341-36	Detonation Transfer Assembly	B	F-16
1377-01-115-3850ES	16K2038-44	Detonation Transfer Assembly	B	F-16
1377-01-115-3851ES	51142-3	Detonation Transfer Assembly	B	F-16
1377-01-125-9407ES	361-26106-508 819209-1	Pressure Actuated Explosive Device	B	B-52
1377-01-125-9500ES	361-26106-522 819146-12	SMDC	B	B-52
1377-01-125-9501ES	361-26106-521 819146-11	SMDC	B	B-52

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-125-9502ES	361-26106-520 819146-10	SMDC	B	B-52
1377-01-125-9503ES	361-26106-519 819146-9	SMDC	B	B-52
1377-01-125-9504ES	361-26106-509 819146-7	SMDC	B	B-52
1377-01-125-9505ES	361-26106-504 819146-2	SMDC	B	B-52
1377-01-125-9506ES	361-26106-503	SMDC	B	B-52
1377-01-126-7690ES	361-26106-516 818696-3	Gas Generator	B	B-52
1377-01-128-8405ES	361-26106-4 818699-1	Electric Detonator	B	B-52
1377-01-137-6039ES	1010-4	Initiator	B	T-38
1377-01-137-6040ES	1139-5	Initiator	B	T-38
1377-01-139-2835ES	51281-721	Detonation Transfer Assembly	B	F-16
1377-01-140-4415ES	51281-722	Detonation Transfer Assembly	B	F-16
1377-01-144-8481ES	51281-723	Detonation Transfer Assembly	B	F-16
1377-01-144-8482ES	51281-724	Detonation Transfer Assembly	B	F-16
1377-01-149-5917ES	FE7590-65	Cartridge	C	UH-60A
1377-01-156-4139ES	1810-023-02	Cutter, Propellant Activated	B	EC-130H
1377-01-160-6506ES	51281-725	Detonation Transfer Assembly	B	F-16
1377-01-165-2080ES	6028400	Initiator	B	F-15B/D/E
1377-01-166-4261ES	0113226-23	Initiator, Inertial Reel	B	QF-4, A-10, T-33, F-15, F-16, F-117, T-38, QF-106, B-2A
1377-01-166-4262ES	6028300	Initiator	B	F-15
1377-01-166-4263ES	6036100	Initiator	B	F-15
1377-01-166-4264ES	6028100	Initiator	B	F-15
1377-01-166-4265ES	6028200	Initiator	B	F-15
1377-01-166-4266ES	6036300	Initiator	B	F-15
1377-01-167-6621ES	6036200	Initiator	B	F-15B/D/E
1377-01-168-2559ES	6047100	Cartridge, Delay 0.25 Second	B	T-38
1377-01-168-4419ES	6046100	Cartridge	B	T-37
1377-01-169-7797ES	5184322	Rocket Catapult	B	A-10, B1B, F-15, F-16 B-2, F-117 Forecast under 1377-01-359-3194ES

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-185-2622ES	30903824-1 1512AS105	Cartridge, Fire Extinguisher	C	H-60
1377-01-198-7480ES	51281-729	Detonation Transfer Assembly	B	F-16
1377-01-198-7481ES	51281-727	Detonation Transfer Assembly	B	F-16
1377-01-198-7482ES	51281-728	Detonation Transfer Assembly	B	F-16
1377-01-198-7483ES	51281-733	Detonation Transfer Assembly	B	F-16
1377-01-198-7484ES	51281-734	Detonation Transfer Assembly	B	F-16
1377-01-198-7485ES	51281-735	Detonation Transfer Assembly	B	F-16
1377-01-200-2429ES	51476-732	Detonation Transfer Assembly	B	F-16
1377-01-200-9008ES	51281-737	Detonation Transfer Assembly	B	F-16
1377-01-200-9009ES	51281-738	Detonation Transfer Assembly	B	F-16
1377-01-200-9010ES	51281-739	Detonation Transfer Assembly	B	F-16
1377-01-200-9011ES	51281-740	Detonation Transfer Assembly	B	F-16
1377-01-200-9012ES	51281-741	Detonation Transfer Assembly	B	F-16
1377-01-200-9013ES	51281-726	Detonation Transfer Assembly	B	F-16
1377-01-200-9014ES	51281-742	Detonation Transfer Assembly	B	F-16
1377-01-200-9015ES	51281-743	Detonation Transfer Assembly	B	F-16
1377-01-200-9016ES	51281-744	Detonation Transfer Assembly	B	F-16
1377-01-200-9017ES	51281-746	Detonation Transfer Assembly	B	F-16
1377-01-200-9018ES	51281-745	Detonation Transfer Assembly	B	F-16
1377-01-200-9019ES	51281-736	Detonation Transfer Assembly	B	F-16
1377-01-201-5515ES	51281-730	Detonation Transfer Assembly	B	F-16
1377-01-202-9195ES	2404800-1	Cartridge	B	F-15B/D/E
1377-01-203-1959ES	821019-1	Initiator	B	F-15
1377-01-203-1960ES	821019-3	Initiator	B	F-15B/D/E
1377-01-203-1961ES	2293200-1	Initiator	B	F-15
1377-01-203-8651ES	821020-1	Initiator	B	F-15B/D/E
1377-01-203-9713ES	51476-731	Detonation Transfer Assembly	B	F-16
1377-01-211-7211ES	1512AS121	Cartridge, Cargo Hook	C	H-60
1377-01-212-8583ES	3215-2	Cartridge, External Hoist	C	UH-1N/F, HH-3E/4, HH-53H/CH, HH-53B/C
1377-01-216-4889ES	6061100	Cartridge Delay	B	B-52
1377-01-220-3746ES	8168890-1	Initiator	B	F-15B/D/E (no B-1B)

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-225-8235ES	878492 878492-1 200330-3	Fire Extinguisher Cartridge	C	KC-135R
1377-01-232-5150ES	21011246-22-1	Sequencer	B	B-1B
1377-01-234-0706ES	6012100-02	Drogue, Severance Cutter, (Scot)	B	A-10, F-15, F-16, F-117, B-1B, B-2A
1377-01-234-0912ES	878493 878493-1 200330-4	Cartridge, Actuator Assembly Antenna	C	KC-135R
1377-01-240-3600ES	51281-749	Detonation Transfer Assembly	B	F-16
1377-01-242-4838ES	1810-025-01	Rod End Cutter	C	EC-130H
1377-01-250-1292ES	51655-751	Detonation Transfer Assembly	B	F-16
1377-01-250-1293ES	56155-752	Detonation Transfer Assembly	B	F-16
1377-01-255-1598ES	30903861 2-101200-1	Fire Extinguisher Cartridge	C	KC-135R
1377-01-255-1650ES	50436-11	Rocket Motor	B	F-16, A-10, F-15, B-2A, B-1B, F-117
1377-01-255-2382ES	30903860 2-101200-2	Fire Extinguisher Cartridge	C	KC-135R
1377-01-262-0521ES	6064200	Initiator, Stab	B	F-15
1377-01-263-3627ES	897899-1	Cartridge, Fire Extinguisher	C	H-60
1377-01-270-0860ES	2684200-201-02	Impulse Cartridge		B-1B
1377-01-277-2868ES	1621-295-01	Cartridge Assembly	B	All A/C except F-16
1377-01-277-2869ES	1621-296-01	Cartridge Assembly	B	F-16
1377-01-287-4174ES	6065400	Initiator	B	F-15B/D/E
1377-01-289-4632ES	6065300	Initiator	B	F-16
1377-01-299-9862ES	6014100-01	Kit Deployment Actuator	B	QF-4, B-52, T-38
1377-01-318-1830ES	1340-1	Rocket Motor	B	A-10, F-15, F-16, F-117, B-1B, B-2A
1377-01-318-5643ES	235031-1	Charge, Shape	B	B-2A
1377-01-318-5644ES	235031-2	Charge, Shape	B	B-2A
1377-01-318-5645ES	235032-1	Charge, Shape	B	B-2A
1377-01-318-5646ES	235032-2	Charge, Shape	B	B-2A
1377-01-318-5647ES	3854100-1	INIT, CTG Actuated	B	B-2A
1377-01-318-5648ES	3862100-2	INIT, Ambient Press	B	B-2A

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-318-7696ES	3123900-6	Initiator, 2.0 sec delay	B	B-2A
1377-01-318-7697ES	3123900-5	Initiator, 1.5 sec delay	B	B-2A
1377-01-319-3847ES	6066100-02	Gas Generator Gyro Spin-Up	B	A-10, B-1B, B-2a, F-15, F-16, F-117
1377-01-322-0071ES	9392046-1	Cartridge, Drogue Gun	B	A-10, B-1B, B-2A, F-15, F-16, F-117
1377-01-322-6334ES	6067100	Cartridge, Mortar	B	A-10, B-1B, B-2A, F-15, F-16, F-117
1377-01-326-1466ES	9094252-10	Flu 9 Inflation Device	C	A-10, B-1B, B-2, F-15, F-16, F-117
1377-01-327-7872ES	1517-002	Rocket Motor Canopy Jettison	B	F-16, Forecast under 1377-01-057-5431ES
1377-01-327-7873ES	1517-001	Rocket Motor Canopy Jettison	B	Forecast under 1377-01-058-0122ES
1377-01-332-2379ES	CI-1.15	Reefing Line Cutter	B	A-10, B-1B, B-2A, F-15, F-16, F-117
1377-01-333-3503ES	876561-2	Cartridge, Fire Extinguisher	C	F-111
1377-01-333-9143ES	CI-4.0	Locking Cord Cutter	B	A-10, B-1B, B-2A, F-15, F-16, F-117
1377-01-333-9317ES	7829332-50	SMDC Cord Set	B	F-15E
1377-01-336-6648ES	877597, -1	Cartridge, Power Device	B	B-1
1377-01-340-3042ES	10595-1	Rocket Motor Canopy Jettison	B	F-16A/B/C/D, T-37
1377-01-346-2215ES	1258-1	Initiator	B	F-117A
1377-01-346-2216ES	1257-1	Initiator	B	F-117A
1377-01-346-2217ES	1007-3	Initiator	B	F-117A
1377-01-346-2218ES	1008-3	Initiator	B	F-117A
1377-01-346-2222ES	1358-1	Thruster, Unlatch	B	F-117A
1377-01-346-2223ES	1253-1	Remover Canopy	B	F-117A
1377-01-348-6479ES	1259-1	Cable Cutter	C	F-117A
1377-01-348-6480ES	1179-2	Valve, Jettison	B	F-117A
1377-01-348-6481ES	1179-1	Valve, Jettison	B	F-117A
1377-01-352-4147ES	51499-3L-3L-210	DTA	B	B-2A

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-352-4148ES	51499-3L-5H-496	DTA	B	B-2A
1377-01-352-4151ES	51499-3L-3L-569	DTA	B	B-2A
1377-01-352-4152ES	51499-3L-4L-84	DTA	B	B-2A
1377-01-352-4153ES	51499-3L-5L-53	DTA	B	B-2A
1377-01-352-4154ES	51499-3L-3L- 1513	DTA	B	B-2A
1377-01-352-4155ES	51499-3L-3L-819	DTA	B	B-2A
1377-01-352-4156ES	51499-3L-3L- 1664	DTA	B	B-2A
1377-01-352-4160ES	446041	CTG, Discharge	B	B-2A
1377-01-352-4161ES	3860100-1	INIT, 0.4 Sec Delay	B	B-2A
1377-01-352-4162ES	3861100-1	INIT, 2.75 Sec Delay	B	B-2A
1377-01-352-4163ES	3942100	INIT, 0.15 Sec Delay	B	B-2A
1377-01-352-4195ES	3811300	RKT MT, Hatch Jett	B	B-2A
1377-01-352-7192ES	51499-3L-4H-83	DTA	B	B-2A
1377-01-352-7193ES	51499-3L-4H-374	DTA	B	B-2A
1377-01-353-4669ES	51499-3L-3L-109	DTA	B	B-2A
1377-01-353-4670ES	51499-3L-3L- 1183	DTA	B	B-2A
1377-01-353-4671ES	51499-3L-5L-360	DTA	B	B-2A
1377-01-353-4672ES	51499-3L-4L-299	DTA	B	B-2A
1377-01-353-4673ES	51499-3L-3L-148	DTA	B	B-2A
1377-01-353-4674ES	51499-3L-4L-952	DTA	B	B-2A
1377-01-353-4675ES	51499-3L-5L-326	DTA	B	B-2A
1377-01-353-4676ES	51499-3L-3L- 1023	DTA	B	B-2A
1377-01-353-4677ES	51499-3L-3L-93	DTA	B	B-2A
1377-01-353-4678ES	51499-3L-3L- 1130	DTA	B	B-2A
1377-01-353-4679ES	51499-3L-3L-110	DTA	B	B-2A
1377-01-353-4680ES	51499-3L-3L-889	DTA	B	B-2A
1377-01-353-4681ES	51499-3L-3L- 1685	DTA	B	B-2A
1377-01-353-4682ES	51499-3L-4H-81	DTA	B	B-2A
1377-01-353-4683ES	51499-3L-4H-733	DTA	B	B-2A
1377-01-353-4684ES	51499-3L-4H-65	DTA	B	B-2A
1377-01-353-4685ES	51499-3L-4L-745	DTA	B	B-2A
1377-01-353-4686ES	51499-3L-5H-318	DTA	B	B-2A

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-353-4687ES	51499-3L-5H-522	DTA	B	B-2A
1377-01-353-4688ES	51499-3L-5H-93	DTA	B	B-2A
1377-01-353-4689ES	51499-3L-5H-395	DTA	B	B-2A
1377-01-353-6651ES	51499-3L-4L-948	DTA	B	B-2A
1377-01-353-6652ES	51499-3L-3L-558	DTA	B	B-2A
1377-01-353-6653ES	51499-3L-4L-1000	DTA	B	B-2A
1377-01-353-6655ES	51499-3L-4L-77	DTA	B	B-2A
1377-01-353-6656ES	51499-3L-4L-95	DTA	B	B-2A
1377-01-353-6657ES	51499-3L-3L-96	DTA	B	B-2A
1377-01-353-6658ES	51499-3L-5H-262	DTA	B	B-2A
1377-01-353-6659ES	51499-3L-3L-665	DTA	B	B-2A
1377-01-353-6660ES	51499-3L-3L-136	DTA	B	B-2A
1377-01-353-6661ES	51499-3L-3L-105	DTA	B	B-2A
1377-01-353-6662ES	51499-3L-5L-669	DTA	B	B-2A
1377-01-353-6663ES	51499-3L-4L-71	DTA	B	B-2A
1377-01-353-6664ES	51499-3L-3L-142	DTA	B	B-2A
1377-01-353-6665ES	51499-3L-5H-260	DTA	B	B-2A
1377-01-353-6667ES	51499-5L-5L-970	DTA	B	B-2A
1377-01-353-6668ES	51499-3L-3L-75	DTA	B	B-2A
1377-01-353-6669ES	51499-3L-3L-165	DTA	B	B-2A
1377-01-353-6670ES	51499-3L-3L-89	DTA	B	B-2A
1377-01-353-6671ES	51499-3L-3L-54	DTA	B	B-2A
1377-01-353-6672ES	51499-3L-3L-390	DTA	B	B-2A
1377-01-354-8885ES	51499-3L-3L-689	DTA	B	B-2A
1377-01-355-0088ES	6104100	0.4 Sec Initiator	B	F-15B/D/E
1377-01-355-0786ES	51499-3L-3L-211	DTA	B	B-2A
1377-01-355-0787ES	51499-3L-5H-498	DTA	B	B-2A
1377-01-355-0788ES	51499-3L-3L-150	DTA	B	B-2A
1377-01-355-0789ES	51499-3L-3L-95	DTA	B	B-2A
1377-01-355-0790ES	51499-3L-3L-180	DTA	B	B-2A
1377-01-355-0791ES	51499-3L-3L-330	DTA	B	B-2A
1377-01-355-0792ES	51499-4L-5L-619	DTA	B	B-2A
1377-01-355-0794ES	51499-3L-4L-929	DTA	B	B-2A
1377-01-355-0795ES	51499-3L-4L-701	DTA	B	B-2A
1377-01-355-0796ES	51499-3L-3L-788	DTA	B	B-2A
1377-01-355-0797ES	51499-3L-3L-140	DTA	B	B-2A

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-355-0798ES	51625-3L-4H-640	DTA	B	B-2A
1377-01-355-0799ES	51625-3L-5H-580	DTA	B	B-2A
1377-01-355-0800ES	51625-3L-5H-720	DTA	B	B-2A
1377-01-357-6882ES	51499-3L-4L-160	DTA	B	B-2A
1377-01-359-3194ES	6610113 5184322 11743975	Catapult CKU-5/B/A	B	A-10, B-1B, B-2A, F-15, F-16, F-117
1377-01-360-4900ES	6107400	Cartridge	B	T-38
1377-01-360-4901ES	6107200	Cartridge	B	
1377-01-360-4902ES	6107300	Cartridge, MK4	B	B-52
1377-01-360-4903ES	6107400	Cartridge	B	T-37
1377-01-360-4904ES	6107500	Cartridge	C	B-52, KC-135, C-130, C-141, C-5, C-17
1377-01-360-8290ES	51499-3L-3L-105	DTA	B	B-2A
1377-01-360-8291ES	51499-3L-3L-85	DTA	B	B-2A
1377-01-360-8292ES	51499-3L-3L-125	DTA	B	B-2A
1377-01-360-8293ES	51499-3L-3L-152	DTA	B	B-2A
1377-01-360-8294ES	51499-3L-3L-153	DTA	B	B-2A
1377-01-360-8295ES	51499-3L-3L-72	DTA	B	B-2A
1377-01-362-6769ES	51499-3L-4L-98	DTA	B	B-2A
1377-01-364-3955ES	6783541	Remover, M1A3	B	T-37
1377-01-368-1514ES	51625-4L-3H-374	DTA	B	B-2A
1377-01-368-1515ES	51625-4L-3H-344	DTA	B	B-2A
1377-01-368-1516ES	51625-4L-3H-178	DTA	B	B-2A
1377-01-368-1517ES	51625-4L-3H-258	DTA	B	B-2A
1377-01-368-5411ES	9392046	Cartridge, Harness Release	B	A-10, B-1B, B-2A, F-15, F-16, F-117
1377-01-380-1682ES	9198851-10	PADD	B	F-16, F-15, A-10, B-1B, B-2, F-117, B-52
1377-01-382-0647ES	824355-2	Initiator, External	C	C-17
1377-01-382-0650ES	824054-101	Initiator, External	C	C-17
1377-01-382-0670ES	824355-1	Initiator, External	C	C-17
1377-01-382-8535ES	2101246-18-1	Sequencer	B	B-2

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-386-7676ES	1812-147-01	Flu 9 Inflation Device	C	F-15, F-16, F-117, A-10, B-1B, B-2
1377-01-383-4790ES	824036-1	Cart, Retractor Press	B	C-17
1377-01-391-5415ES	446161	Cart, Fire Extinguisher	C	C-17
1377-01-394-1227ES	5120100	Tow Severance Rel	C	C-17
1377-01-394-1271ES	1814-017-02	UWARS (Frost)	B	B-1B, B-2, F-16, F-22
1377-01-394-1272ES	1814-017-01	UWARS (Koch)	B	A-10, B-1B, B-52, F-15, F-117, KC-135, QF-4
1377-01-419-8795ES	B14051-1	Actuator, Explosive	B	B-2
1377-01-419-8796ES	B73364-1	Cart, Fire Extinguisher	C	F-111, HH-53, OV-10
1377-01-394-1227ES	5120100	Tow Severance Rel	C	C-17
1377NCE148030ES	51499-3L-5H-395	DTA	B	B-2A
1377-01-425-9738ES	825243-1	Panel Assembly, Forward L.	C	C-17
1377-01-425-9735ES	825243-2	Panel Assembly, Forward R.	C	C-17
1377-01-425-9737ES	825244-1	Panel Assembly, Aft L.	C	C-17
1377-01-425-9749ES	825244-2	Panel Assembly, Aft R.	C	C-17
1377-01-437-4075ES	826213	Cartridge, Selector	B	F-15B/D/E
1377-01-444-3631ES	DAA3122P023- 125	Actuator, Pyrotech	B	B-2
1377-01-448-9856ES	951082	Expl Cord Set	B	C-17
1377-01-449-8822ES	DAA3294P340- 040	DTA	B	B-2
1377-01-449-8823ES	DAA3294P340- 037	DTA	B	B-2
1377-01-449-8824ES	DAA3294P340- 061	DTA	B	B-2
1377-01-449-8825ES	DAA3294P340- 054	DTA	B	B-2
1377-01-449-8826ES	DAA3294P340- 035	DTA	B	B-2
1377-01-449-8827ES	DAA3294P340- 043	DTA	B	B-2
1377-01-449-8828ES	DAA3294P340- 063	DTA	B	B-2

Table 4-1. Selected Cartridge/Propellant Actuated Devices - Continued

NSN	PART NO.	NOUN/ NOMENCLATURE	EGR. IND.	APPLICABILITY
1377-01-449-8829ES	DAA3294P340-062	DTA	B	B-2
1377-01-449-8831ES	DAA3294P340-064	DTA	B	B-2
1377-01-449-8832ES	DAA3294P340-065	DTA	B	B-2
1377-01-449-8834ES	DAA3294P340-045	DTA	B	B-2
1377-01-449-8835ES	DAA3294P340-032	DTA	B	B-2
1377-01-449-8836ES	DAA3294P340-060	DTA	B	B-2
1377-01-454-9864ES	1812-181-01	Flu 9 Inflation Device	C	F-16, F-15, F-117, A-10, B-1B, B-2
1377-01-463-2595ES	51405-2	Tailhook Panel Severance	C	F-117
1377-01-463-3341ES	51406-2	Tailhook Initiator	C	F-117
6135-00-488-4478ES	2204100	Battery	C	QF-4